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24 MAY 67 11 73715

S E C R E T 240830Z CITE [REDACTED] 7811

PRIORITY DIRECTOR INFO IMMEDIATE [REDACTED] LOGISTICS

62 (NOTAL) (IN 63753)

B. LOGS 0474 (IN 69366)

C. DIRECTOR 02758 (NOTAL)

1. ONE HUNDRED PERCENT AIR CONDITIONING AND POWER HOUSE DESIGN  
AND CHANGES NOW COMPLETED AS OUTLINED IN REF A. LATEST ESTIMATES ARE

[REDACTED]

ANYWAY, SO COMBINED PROJECT IS WITHIN FUNDS. [REDACTED] SAYS DRAWINGS  
MUST BE APPROVED BY FRIDAY 26 MAY SO HE CAN ADVERTISE FOR THIRTY DAYS  
AND SIGN CONTRACT PRIOR 1 JULY. [REDACTED] WILL NOT APPROVE DRAWINGS  
WITHOUT HQS CONCURRENCE. AT THIS THIS POINT, NO MAJOR DESIGN CHANGES  
ARE POSSIBLE, ALTHOUGH MINOR CHANGES CAN BE MADE AND ARE PLANNED  
DURING AND AFTER ADVERTISING. ALTHOUGH MINOR IMPROVEMENTS CAN AND  
WILL BE MADE, [REDACTED] IS SATISFIED THAT BOTH DESIGNS ARE ADEQUATE.  
SEVERAL ALTERNATIVES ARE AVAILABLE:

A. APPROVE DESIGN AS IS AND MAKE MINOR IMPROVEMENTS LATER.

B. CANCEL ONE OR BOTH PROJECTS FOR FY-67 AND MAKE FUNDS

5/29/67  
C/D/REC  
DC/REC  
EO/REC  
C/ACQ  
C/CE  
C/UE  
CENTR

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AVAILABLE IN FY-68 TO PROVIDE MORE TIME TO REFINE DESIGN.

25X1A 2. SINCE [REDACTED] CLOSER TO SCENE, WILL ATTEMPT ANSWER REF B:

A. SELECTION OF TWO 100 TON CHILLERS: A&E CALCULATED PROJECTED HEAT LOAD OF 91 TONS AND SOUGHT TO GIVE 100 PERCENT BACKUP TO THIS LOAD. SINCE ACTUAL LOAD IS ABOUT 70-80 TONS AND CRITICAL LOAD IS WHICH MUST HAVE BACKUP IS 45-50 TONS, A&E DIRECTED TO SPECIFY TWO CHILLERS WITH SPACE FOR THIRD, AS OUTLINED REF A.

B. 7,500 CFM AIR HANDLER FOR SCREEN ROOM: WHEN A & E CALCULATED HEAT LOAD FOR THIS SPACE, INCLUDED DISC FILE HEAT EXCHANGER LOAD AS PART OF AHU-3 LOAD, THUS SIZING IT ABOUT 25 PERCENT TOO LARGE. HOWEVER, MEASUREMENTS OF SCREEN ROOM AIR FLOW SUGGEST THAT BLOWER MUST BE DESIGNED TO OVERCOME HIGH STATIC PRESSURE. PRESENT AIR HANDLER IS DISIGNED TO PUT APPROX 6,000 CFM SUPPLY AIR INTO ROOM AT 60 DEGREES. MEASURMENTS INDICATE THAT 2,500 CFM GETTING INTO ROOM AT 50 DEGREES. ASSUME THAT HIGH PRESSURE DROP THROUGH WAVEGUIDES ACCOUNTS FOR DIFFERENCES. SINCE TEMP OF SUPPLY AIR IN NEW SYSTEM WOULD BE 59 DEGREES, 6,000 CFM IS REQUIRED.

C. 19,200 CFM AHU-4 FOR CRYPTO AREA: A&E PROVIDED FOR APPROX 25 PERCENT EXPANSION OF LOAD.

D. USE OF CONTINUOUS DIFFUSER RATHER THAN IMPROVING DUCTWORK:

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A&E DESIGNED UNDER RESTRICTION THAT THE AMOUNT OF TIME UNCLEARED PERSONNEL WERE REQUIRED TO BE IN AREA MUST BE KEPT TO ABSOLUTE MINIMUM AND FELT THIS PRECLUDED EXTENSIVE DUCTWORK CHANGES.

E. 30 PERCENT REVIEW: A&E NOT GIVEN PROJECT UNTIL 15 APRIL AND PRE-FINAL DRAWINGS REQUIRED 1 MAY.

F. A&E REP SAYS THAT ALTHOUGH PRESENT DESIGN WAS NOT SPECIFIED DURING VISIT [REDACTED], ALL CONCEPTS WERE DISCUSSED AS POSSIBLE AND PRACTICAL SOLUTIONS. [REDACTED] APPROVED ALL DESIGN.

3. [REDACTED] AND A&E QUERIED PER REF C TRAVELING CRANE WOULD COST APPROX \$10,000. [REDACTED] AND A&E BOTH FEEL CRANE NOT ESSENTIAL. 500 KVA TRANSFORMERS BANK WOULD COST [REDACTED] FOR TRANSFORMERS (EST. \$20/KVA) AND [REDACTED] FOR EXTRA CABLE TO SWITCHGEAR. INSTALLATION COST INCLUDED IN CONTRACT SINCE CALLS FOR RELOCATION OF EXISTING 300KVA BANK. 13.8KV/277-480V TRANSFORMERS PROVIDE 300KVA CAPACITY.

4. ONLY SIGNIFICANT CHANGE TO DESIGN CONTEMPLATED AT THIS TIME IS TO ELIMINATE AHU-3 FOR SCREEN ROOM, PUT BOOSTER BLOWER IN DUCT FROM MAIN SUPPLY AIR DUCT IN HALLWAY TO SCREEN ROOM AND INCREASE SIZE OF AHU-1 TO 15,000 CFM. THIS WOULD ALLOW SCREEN ROOM TO BE SUPPLIED FROM EITHER FRONT OR REAR AIR HANDLER, AND COMPENSATE FOR WAVE GUIDE PRESSURE DROPS WITHOUT HAVING TO OVERSIZE AIR HANDLER;

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ENLARGING AHU-1 WOULD GIVE IT GREATER CAPABILITY TO BACK UP AHU-4.  
IN VIEW OF PRECULIAR SCREEN ROOM PROBLEMS, A&E AND [REDACTED] LIKE THIS 25X1A  
SCHEME. SINCE THIS WOULD PROBABLY SAVE MONEY, WOULD NOT BE  
DIFFICULT CHANGE TO MAKE DURING OR AFTER ADVERTISEMENT.

5. THIS CABLE NOT COORDINATED WITH [REDACTED] WILL CONFER ON ABOVE 25X1A  
MATTERS UPON HIS ARRIVAL.

S E C R E T

BT

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